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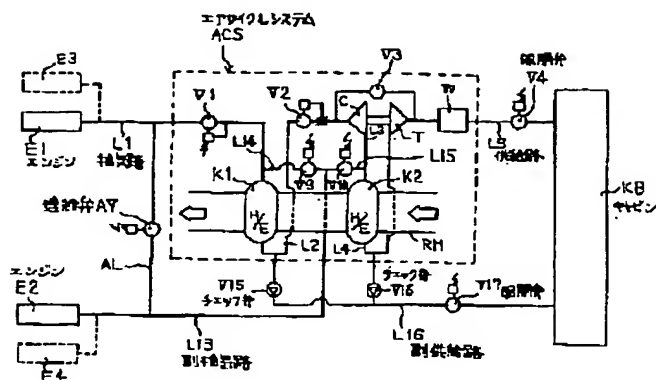
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INVENTOR : SATO OSAMU;

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TITLE : AIR CONDITIONING SYSTEM OF AIRCRAFT



ABSTRACT : PROBLEM TO BE SOLVED: To make the air cycle system light weight while maintaining air conditioning function similar to that of a plurality of systems.

SOLUTION: Bleed air introduced through a bleed passage L1 from either of the two engine E1 and E2 is cooled by a first heat exchanger K1 and a second heat exchanger K2, which cool by ram air. Further, an air cycle system ACS is constructed such that bleed air is supplied to a cabin KB through a supply passage L5. Also provided are, a secondary bleed passage L13 which selects one input side of either the first exchanger K1 or the second heat exchanger K2 to supply the bleed air from either of the two engines E1 and E2 and a secondary supply passage L15 which supplies bleed air which had been output from and cooled by the first heat exchanger K1 and the second heat exchanger K2 to the cabin KB non-reversibly. Therefore, when failure occurs to the air cycle system ACS, air conditioning can be implemented through the secondary bleed passage and the secondary supply passage.

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